

SPECIFICATION AMENDMENT

In the Specification

The paragraph beginning at page 4, line 10 in the original specification is amended at line 15:

B1
It has been discovered that materials containing a plurality of olefin groups react with a variety of zirconium hydride complexes forming a hydrozirconated matrix, which can be activated and usefully employed for the subsequent production of specific polyolefins. The olefin-based materials comprise organic materials having covalently bound olefin groups ~~and or~~ inorganic solids functionalized with olefin groups. The organic materials are in the form of solids or liquids and are based on polymers. The olefin-based materials usefully employed for the polymerization of olefins are macroporous organic polymers prepared by dispersion, precipitative, emulsion or suspension polymerization in the presence of porogens. The number of olefin groups, the pore size and surface area in the polymers can be synthetically and morphologically controlled by judicious selection of polymerization conditions. It has been further discovered that the polymers and their resulting hydrozirconated matrices can be prepared in shapes which are useful in the production of polyolefins. Another type of olefin-based materials usefully employed for the polymerization of olefins are inorganic solids and hybrid organic-inorganic polymers, such as siloxanes, that are chemically functionalized with olefin groups. The olefin groups may be disposed on the surface of the materials or may be dispersed throughout the materials. The hydrozirconated matrices can be activated using a variety of boron and aluminum containing activators to produce catalyst systems useful in the production of polyolefins.
